QC ABSTRACT

NAME OF WORK: Construction of R O Plant at Kodigehalli in Ward No.08.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	PCC M15	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.36	2	2
9	Column Footing Concrete M20	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.74	2	2
10	Plinth Beam Concrete M20	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.56	2	2

11	Lintel Concrete M20	Compressive Strength(7days and 28days)	1 set /1-5 cum	0.42	2	2
12	Roof Concrete M20	Compressive Strength(7days and 28days)	1 set /1-5 cum	2.54	2	2
13	RCC M20	Compressive Strength(7days and 28days)	1 set /1-5cum	0.72	2	2
14	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
15	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-03-05-13** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Authorized Signatory
Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-03-05-13** **Date: 10-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-05-13** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-05-13** **Date: 15-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.45	_
6	Water Absorption(%)	0.22	_

Note:
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Authorized Signatory
Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-03-05-13** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	_

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-03-05-13** **Date: 15-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-05-13** **Date: 15-07-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-05-13** **Date: 15-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Technical Manager

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-03-05-13** **Date: 15-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	13-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory

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Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-03-05-13** **Date: 26-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	201	200	16120	33.928	2104.7	2086.5	Not less than 1800Kg/m^3
2	403	200	202	16281	33.955	2085.5		
3	398	201	201	16080	33.275	2069.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-03-05-13** **Date: 26-07-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	200	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	202	202	
3	404	201	203	
4	401	200	199	
5	401	202	199	
6	400	201	201	
7	401	200	201	
8	400	199	199	
9	401	200	199	
10	401	201	201	
11	399	203	199	
12	402	199	201	
13	400	202	199	
14	403	200	200	
15	402	201	199	
16	402	202	200	
17	401	201	201	
18	403	203	200	
19	401	201	201	
20	400	199	199	
Average of 20	**401**	**201**	**200**	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-2020-03-05-13** **Date: 26-07-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80100	467.5	5.8	5.3
2	402	202	81314	444.2	5.5	
3	404	201	81140	401.4	4.9	
4	401	200	80474	353.5	4.4	
5	401	202	80819	416.5	5.2	
6	400	201	80326	425.2	5.3	
7	401	200	80300	459.9	5.7	
8	400	199	79747	448.8	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-03-05-13**	**Date: 03-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08	
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092	
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-07-19	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	30/07/2019	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Dasarahalli Zone, B.B.M.P.,
Bangalore.

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 26/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	29/07/2019	26/08/2019	149.36 X 151.38 X 150.27	22611	**8.142**	521.5	23.1	23.3
2	Lintel Concrete	M20	29/07/2019	26/08/2019	151.35 X 151.67 X 151.60	22956	**8.141**	523.0	22.8	
3	Lintel Concrete	M20	29/07/2019	26/08/2019	149.94 X 151.40 X 149.55	22701	**8.588**	543.8	24.0	

Note:

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Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 05/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-07-19

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	29/07/2019	05/08/2019	149.21 X 151.75 X 149.97	22643	**8.773**	412.6	18.2	18.4
2	Lintel Concrete	M20	29/07/2019	05/08/2019	151.33 X 150.41 X 149.21	22761	**8.684**	414.8	18.2	
3	Lintel Concrete	M20	29/07/2019	05/08/2019	149.64 X 149.01 X 151.76	22297	**8.762**	418.8	18.8	

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/07/2019

Lab ID	:	**CP-2020-03-05-13**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-19
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	24/07/2019	31/07/2019	150.76 X 151.25 X 151.56	22803	**8.773**	416.0	18.2	18.3
2	Plinth Beam Concrete	M20	24/07/2019	31/07/2019	151.23 X 150.63 X 149.90	22781	**8.684**	414.0	18.2	
3	Plinth Beam Concrete	M20	24/07/2019	31/07/2019	151.05 X 149.89 X 151.04	22641	**8.762**	417.6	18.4	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 21/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	24/07/2019	21/08/2019	150.53 X 150.25 X 150.67	22617	**8.142**	529.9	23.4	23.2
2	Plinth Beam Concrete	M20	24/07/2019	21/08/2019	150.82 X 151.37 X 151.25	22829	**8.141**	524.3	23.0	
3	Plinth Beam Concrete	M20	24/07/2019	21/08/2019	151.50 X 150.65 X 149.71	22823	**8.588**	528.0	23.1	

Note:

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Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 12/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	05/08/2019	12/08/2019	150.95 X 149.63 X 150.36	22587	**8.773**	427.1	18.9	18.6
2	Roof Concrete	M20	05/08/2019	12/08/2019	150.29 X 149.64 X 150.87	22490	**8.684**	422.0	18.8	
3	Roof Concrete	M20	05/08/2019	12/08/2019	149.32 X 151.04 X 149.23	22553	**8.762**	412.0	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 02/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-19

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	05/08/2019	02/09/2019	149.70 X 150.58 X 149.97	22542	**8.142**	531.6	23.6	23.0
2	Roof Concrete	M20	05/08/2019	02/09/2019	151.96 X 150.75 X 149.69	22908	**8.141**	504.3	22.0	
3	Roof Concrete	M20	05/08/2019	02/09/2019	149.60 X 150.69 X 151.62	22543	**8.588**	528.8	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 09/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/09/2019	09/09/2019	149.69 X 150.52 X 149.30	22531	**8.773**	411.7	18.3	18.3
2	RCC	M20	02/09/2019	09/09/2019	150.32 X 151.08 X 150.55	22710	**8.684**	418.5	18.4	
3	RCC	M20	02/09/2019	09/09/2019	149.51 X 149.91 X 150.26	22412	**8.762**	408.3	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 30/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-09-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	02/09/2019	30/09/2019	149.99 X 150.20 X 150.55	22529	**8.142**	530.1	23.5	23.3
2	RCC	M20	02/09/2019	30/09/2019	149.27 X 149.16 X 151.79	22266	**8.141**	504.9	22.7	
3	RCC	M20	02/09/2019	30/09/2019	149.27 X 151.23 X 151.85	22574	**8.588**	535.8	23.7	

Note:

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Assistant Executive Engineer,
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Yelahanka Zone, B.B.M.P.
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 25/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/07/2019	25/07/2019	149.66 X 151.10 X 149.45	22614	**8.201**	277.6	12.3	12.4
2	PCC	M15	18/07/2019	25/07/2019	149.58 X 149.39 X 149.04	22346	**8.338**	280.8	12.6	
3	PCC	M15	18/07/2019	25/07/2019	150.37 X 150.30 X 149.90	22601	**8.911**	277.1	12.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 15/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	18/07/2019	15/08/2019	149.35 X 149.77 X 151.53	22368	**8.782**	402.4	18.0	17.9
2	PCC	M15	18/07/2019	15/08/2019	151.69 X 149.70 X 149.05	22708	**8.367**	407.8	18.0	
3	PCC	M15	18/07/2019	15/08/2019	150.82 X 151.45 X 149.85	22842	**8.098**	407.5	17.8	

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Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 29/07/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Column Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Footing Concrete	M20	22/07/2019	29/07/2019	150.31 X 149.77 X 150.00	22513	**8.773**	419.3	18.6	18.5
2	Column Footing Concrete	M20	22/07/2019	29/07/2019	150.29 X 150.14 X 151.45	22565	**8.684**	411.7	18.2	
3	Column Footing Concrete	M20	22/07/2019	29/07/2019	151.96 X 149.09 X 149.25	22655	**8.762**	424.7	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-03-05-13** **Date: 19/08/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of R O Plant at Kodigehalli in Ward No.08

Agency : Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092

Customer's Reference : BBMP/EE/BTP/WO/52/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-19

Customer ID : Column Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Footing Concrete	M20	22/07/2019	19/08/2019	150.35 X 149.05 X 150.58	22410	**8.142**	532.7	23.8	23.0
2	Column Footing Concrete	M20	22/07/2019	19/08/2019	149.92 X 149.75 X 151.70	22451	**8.141**	496.3	22.1	
3	Column Footing Concrete	M20	22/07/2019	19/08/2019	151.83 X 150.25 X 150.95	22812	**8.588**	525.1	23.0	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2020-03-05-13** **Date: 29-07-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-07-19
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2020-03-05-13** **Date: 29-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	_
5	*Loose Bulk Density (Kg/litre)	1.73	_

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FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R RUDRAPRASD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2020-03-05-13** **Date: 05-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-07-19
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	31-07-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-03-05-13** **Date: 05-08-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R RUDRAPRASD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2020-03-05-13** **Date: 11-08-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of R O Plant at Kodigehalli in Ward No.08
Agency	:	Sri. Taranath K.R No.713, Near Govt School, Kodigehalli, Sahakaranagar (P) Banglaore-560092
Customer Reference	:	BBMP/EE/BTP/WO/52/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-19
Sample Type/ Size	:	Precast Concrete Blocks for Paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	06-08-19

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.11	3.29	3.64
2	4.898	4.721	60.98	3.75	
3	4.988	4.802	60.12	3.87	

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R RUDRAPRASAD
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Technical Manager

CIVIL PRO Sig..... Date..... BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com